



IPERION CH



How to submit a document in the IPERION-CH collection on Hal?

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With special thanks to the mailing list “Liste halinfo”,
Celine Smith and Anne Lassailly-Bondaz

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What is HAL?

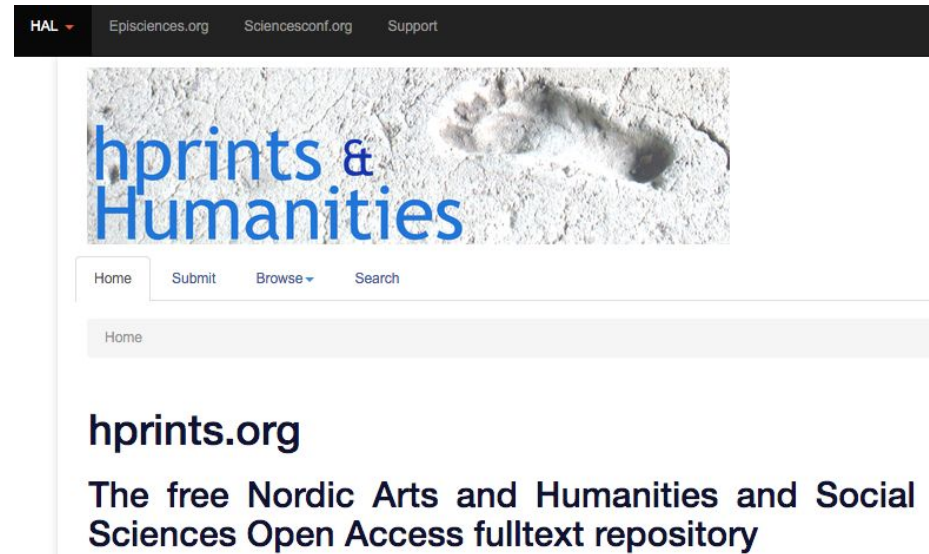
<https://hal.archives-ouvertes.fr/>



- ❑ HAL = “**Hyper Article en Ligne**” (*Hyper Article onLine*)
- ❑ Multi-disciplinary open access archive
- ❑ The platform HAL respects the OAI-PMH.
- ❑ For research documents, either published in peer-reviewed settings or simple preprints and reports
- ❑ From France or abroad
- ❑ From public or private research centers

History

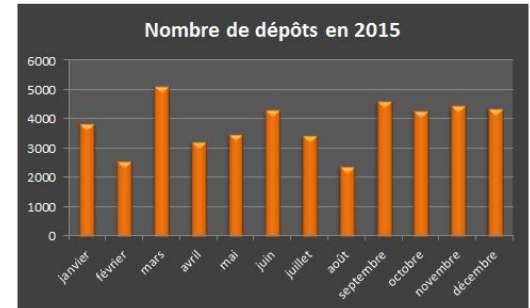
- ❑ 2000-2001 : Creation in France of the CCSD (Centre pour la communication scientifique directe – *Center for the direct scientific communication*)
- ❑ 2002 : Budapest Open Access Initiative
- ❑ 2002 : Launch of HAL
- ❑ 2003 : Berlin Declaration on Open Access
- ❑ 2008 : HAL extended in Europe : Hprints initiative for the humanities in Scandinavian countries
- ❑ 2016: HAL recognized as an official research infrastructure on the French national roadmap



The screenshot shows the top portion of the hprints.org website. At the top is a dark navigation bar with the HAL logo and links to Episciences.org, Sciencesconf.org, and Support. Below this is a banner image featuring a footprint in sand and the text 'hprints & Humanities' in blue. Underneath the banner is a navigation menu with 'Home', 'Submit', 'Browse', and 'Search' options. A secondary 'Home' button is visible below the menu. The main heading 'hprints.org' is displayed in a large, bold font, followed by the tagline: 'The free Nordic Arts and Humanities and Social Sciences Open Access fulltext repository'.

HAL today

- ❑ Ranking Web of Repositories:
 - HAL Inria : 14th and HAL SHS : 20th (World rank)
 - HAL Inria : 3rd and HAL SHS : 7th (European Union rank)
- ❑ OpenDOAR : 1 101 515 items (bibliographical references + full texts) on HAL (2016-02-22)
- ❑ 46 205 submissions in full text on HAL in 2015 (“HAL en 2015 : quelques chiffres”, *Le blog du CCSD*, 2016-02-02, <http://blog.ccsd.cnrs.fr/tag/statistiques/>)



Number of submissions in 2015

Homepage

CCSD HAL Episciences.org Sciencesconf.org Support fr en Marie Puren

HAL

archives-ouvertes.fr

Home Submit Browse Search Documentation My space Privileges

Home

The open archive HAL

HAL is an open archive where authors can deposit scholarly documents from all academic fields.

For the attention of the authors

- The deposit must be made in agreement with the co-authors and in the respect for the policy of the publishers.
- The deposit is subject of a control, HAL reserves the right to refuse items that do not meet the criteria of the archive.
- Any deposit is definitive, no withdrawals will be made after the on-line posting of the publication.
- Text files in pdf format or image files are sent to CINES for long-term archiving.

For the attention of the readers

- In a context of electronic distribution, every author keep all its intellectual property rights.

LAST SUBMISSIONS IN HAL



Patrick Schmolli. LE DÉBAT Les jeux vidéo violents : un espace de médiation. Cultures en mouvement, 2003, Jeunes en rupture : quelles médiations ?, pp.46-49. <hal-01299972>



Patrick Schmolli. L'Homme Terminal. La définition de l'humain à l'épreuve des nouvelles technologies. Cultures en mouvement, 2003, Aux limites de l'humain, pp.85-93. <hal-01299936>



Corinne Barreau, Elodie Labit, Christophe Guissard, Jacques Rouquette, Marie-Laure Boizeau, et al.. Regionalization of browning revealed by whole subcutaneous adipose tissue imaging. Obesity, Wiley, 2016, vol. 00 (n° 00), pp. 1-9. <10.1002/oby.21455>. <hal-01299930>



Alaa Farhat, Assaad Zoughalb, El Khalil. Etude de l'extension de la méthode d'intégration énergétique de l'échelle locale à l'échelle territoriale. Congrès Français de Thermique, Jun 2014, Lyon, France. 2014, <http://www.congres-stf.fr/2014/>. <hal-01299892>

SEARCH

Search terms



NUMBER OF RESOURCES

1 120 105

NUMBER OF FULLTEXTS

384 550

NEWS

OPEN REPOSITORY AND PUBLICATIONS DATABASE : CALL FOR PAPERS (3/17/16)

SUPPORT : USE EMAIL HAL.SUPPORT@CCSD.CNRS.FR (3/16/16)

ADOPTION OF THE BILL FOR A DIGITAL REPUBLIC (1/27/16)

RELEASE NOTES (1/21/16)

FP7 POST-GRANT OPEN ACCESS PUBLISHING FUNDS PILOT (5/11/15)

Why using HAL?

- ❑ **Sustainability** : every document has a stable URL guaranteed by CCSD and is archived within the national CINES facility
- ❑ **Visibility** increases for documents available on an open archive:
 - Ebrahim N. A., Salehi H., Embi M. A., et alii, “Visibility and Citation Impact”, *International Education Studies*, Vol. 7, No. 4, 2014 (http://papers.ssrn.com/sol3/papers.cfm?abstract_id=2419315)
 - Lawrence S., “Free online availability substantially increases a paper's impact”, *Nature*, Vol. 411, 31 may 2011 (<http://www.nature.com/nature/debates/e-access/Articles/lawrence.html>)
 - Le Hénaff D., « Gérer et diffuser des thèses électroniques : un choix politique pour un enjeu scientifique », ADBS, 2005 (https://hal.archives-ouvertes.fr/sic_00001689)

Why using HAL?

- ❑ **Compliance** with open access policy for research funded under the 2014-2020 EU Framework Programme for Research and Innovation, Horizon 2020

“Article 29.2 of the Model Grant Agreement sets out detailed legal requirements on open access to scientific publications: under Horizon 2020, each beneficiary must ensure open access to all peer-reviewed scientific publications relating to its results.”

(Guidelines on Open Access to Scientific Publications and Research Data in Horizon 2020, Version 3.1, 25 August 2016, p.5.)

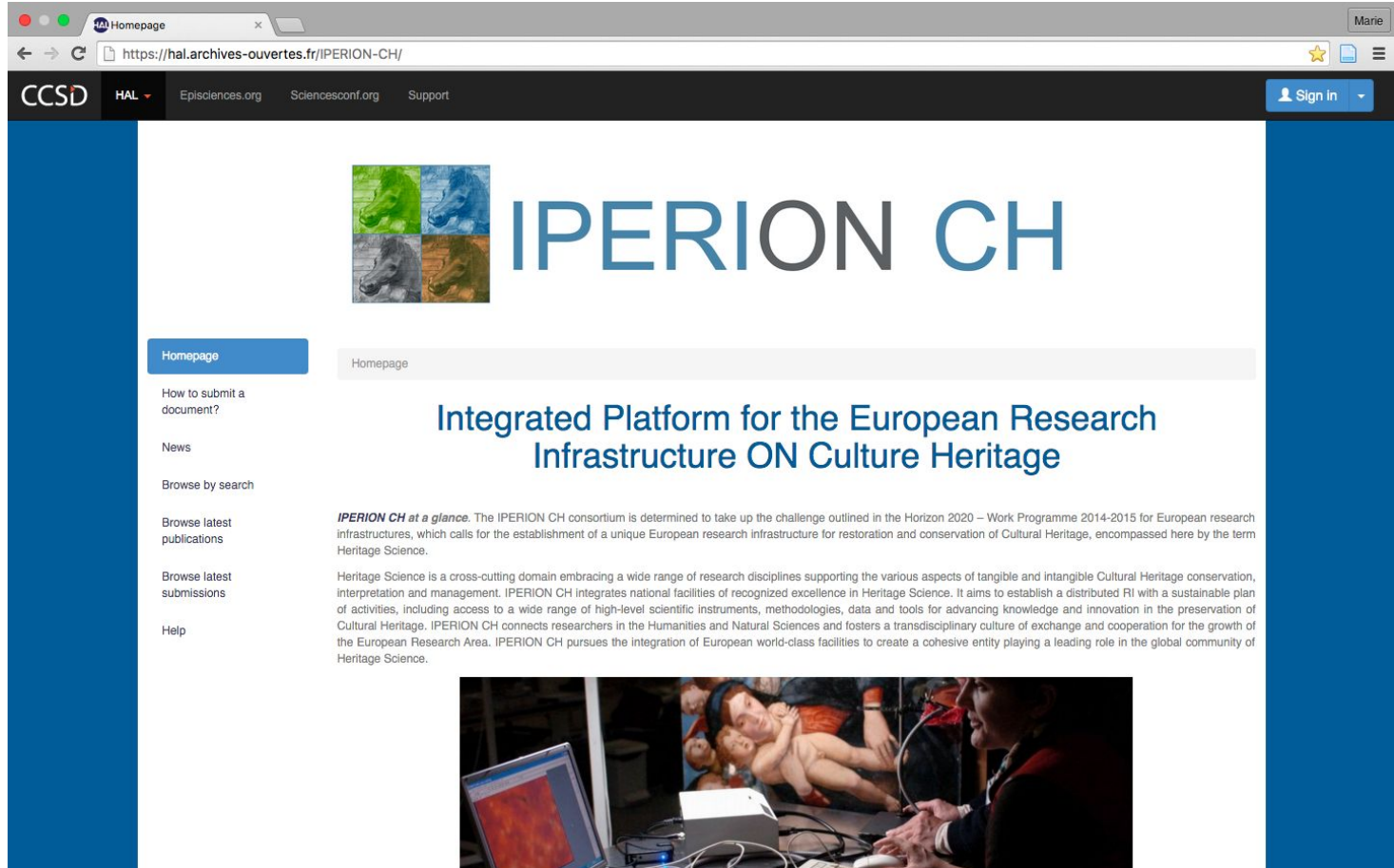
The IPERION-CH collection

- ❑ Collections in HAL allow to gather documents that :
 - Share the same theme
 - Come from the same institution, laboratory, team...
 - Belong to the same project
- ❑ All the documents are accessible in HAL
- ❑ A personalized page to give an unified access
- ❑ More visibility

Presentation of the collection

- ❑ Available here : <https://hal.archives-ouvertes.fr/IPERION-CH/>
- ❑ In English (a few words are in French)
- ❑ The IPERION-CH collection gathers all the documents produced within the IPERION-CH consortium:
 - Articles
 - Conference papers
 - Grey literature... etc.

Available here :
<https://hal.archives-ouvertes.fr/IPERION-CH/>



The screenshot shows a web browser window with the URL <https://hal.archives-ouvertes.fr/IPERION-CH/>. The browser's address bar and navigation buttons are visible. The website's header includes the CCSD logo, navigation links for HAL, Episciences.org, Sciencesconf.org, and Support, and a user profile for Marie with a 'Sign in' button.

The main content area features a 2x2 grid of horse head images in different colors (green, blue, grey, brown) to the left of the large text 'IPERION CH'. Below this, a blue button labeled 'Homepage' is highlighted. A secondary 'Homepage' link is also present in a light grey box.

The page title is 'Integrated Platform for the European Research Infrastructure ON Culture Heritage'. The main text describes the consortium's mission:

IPERION CH at a glance. The IPERION CH consortium is determined to take up the challenge outlined in the Horizon 2020 – Work Programme 2014-2015 for European research infrastructures, which calls for the establishment of a unique European research infrastructure for restoration and conservation of Cultural Heritage, encompassed here by the term Heritage Science.

Heritage Science is a cross-cutting domain embracing a wide range of research disciplines supporting the various aspects of tangible and intangible Cultural Heritage conservation, interpretation and management. IPERION CH integrates national facilities of recognized excellence in Heritage Science. It aims to establish a distributed RI with a sustainable plan of activities, including access to a wide range of high-level scientific instruments, methodologies, data and tools for advancing knowledge and innovation in the preservation of Cultural Heritage. IPERION CH connects researchers in the Humanities and Natural Sciences and fosters a transdisciplinary culture of exchange and cooperation for the growth of the European Research Area. IPERION CH pursues the integration of European world-class facilities to create a cohesive entity playing a leading role in the global community of Heritage Science.

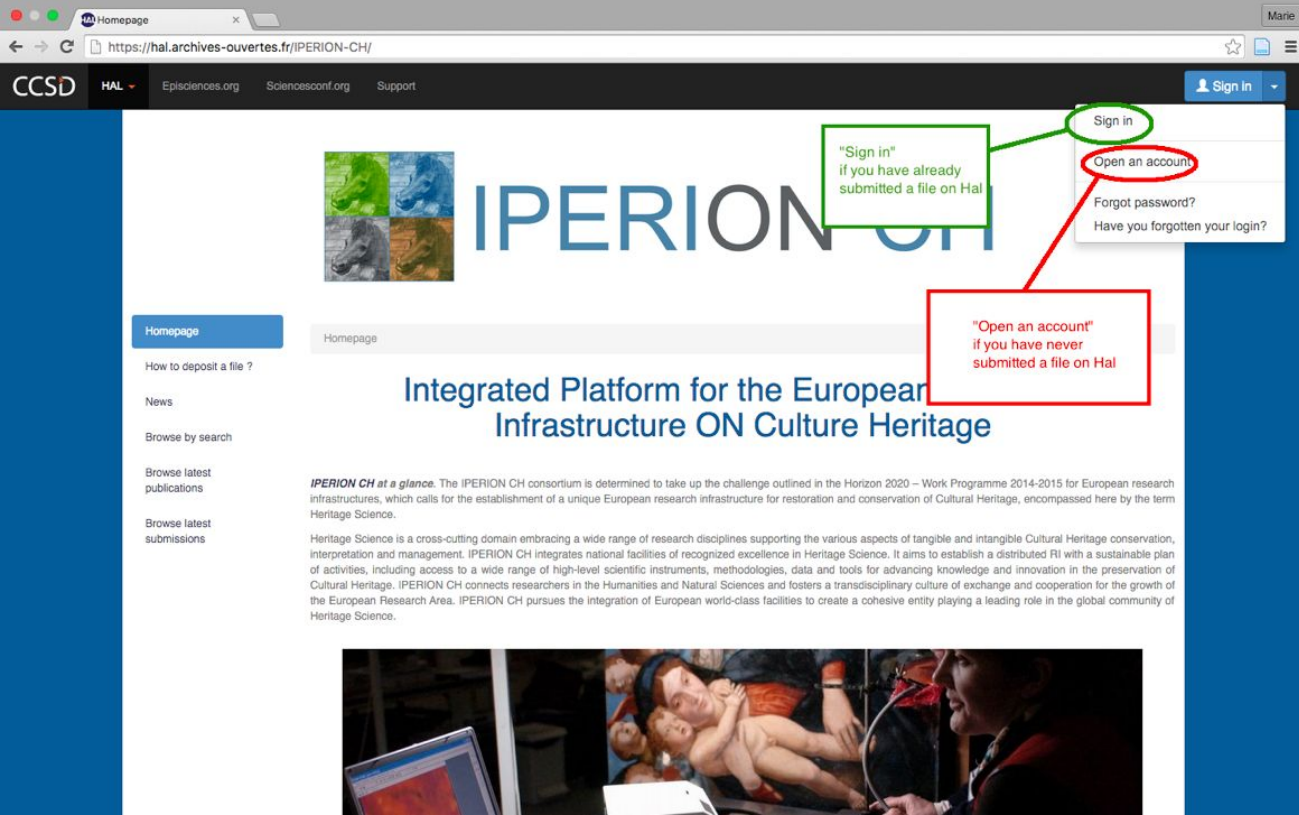
At the bottom of the page, there is a photograph showing a person working at a computer workstation in a laboratory or museum setting, with a classical sculpture of a reclining figure in the background.

On the left side of the page, there is a vertical navigation menu with the following items:

- Homepage
- How to submit a document?
- News
- Browse by search
- Browse latest publications
- Browse latest submissions
- Help

Sign in or create an account

- You have already submitted a file : “Sign in”
- You have never submitted a file : “Open an account”.



The screenshot shows the HAL website interface. The browser address bar displays <https://hal.archives-ouvertes.fr/IPERION-CH/>. The navigation bar includes the CCSD logo, a dropdown menu for HAL, and links for Eplsciences.org, Sciencesconf.org, and Support. A user profile icon labeled 'Marie' is in the top right corner, with a 'Sign in' button next to it.

The main content area features a large 'IPERION CH' logo and the text 'Integrated Platform for the European Infrastructure ON Culture Heritage'. Below this, there is a section titled 'IPERION CH at a glance' with a paragraph of text. At the bottom, there is a photograph of a person working on a laptop next to a large sculpture of a reclining figure.

Annotations on the screenshot include:

- A green box pointing to the 'Sign in' button with the text: "Sign in" if you have already submitted a file on Hal.
- A red box pointing to the 'Open an account' button with the text: "Open an account" if you have never submitted a file on Hal.
- A red circle around the 'Open an account' button.
- A red circle around the 'Sign in' button.

The 'Sign in' dropdown menu is open, showing the following options:

- Sign in
- Open an account
- Forgot password?
- Have you forgotten your login?

How to create an account?

- ❑ Choose carefully your “Login”. : you won’t be able to change it
- ❑ You will then receive a link in your mailbox to activate your account. Click on the link, and fill in your information to complete your registration.

Open an account

Open of an account with the CCSD's Central Authentication Service

Create your login

* Champs requis

Login * Can not be changed later. At least 3 chars.

Choose your password

Password * minimum is 7 characters

Password (confirmation) * Confirm your password

Fill in you name and your first name

Family name *

First name *

Fill in a valid email address to receive the validation link

E-mail address * anonyme@exemple.org


Open an account

Sign in

After creating your account, you have to “Sign in” before using Hal:

CCSD Central Authentication Service (CAS)

Enter your Username and Password



Warn me before logging me into other sites.

[Forgotten Login](#) | [Forgotten Password](#)

You don't have an account

[Help](#)

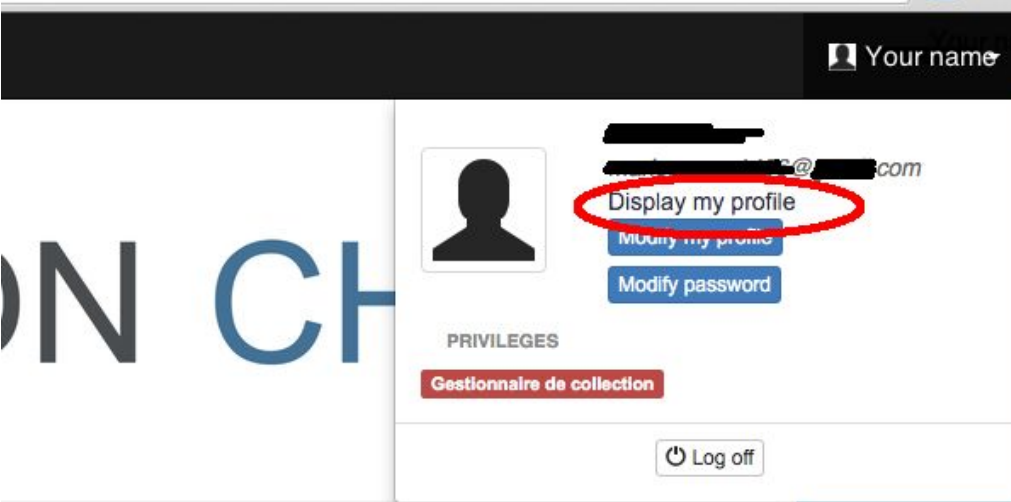
For security reasons, please Log Out and Exit your web browser when you are done accessing services that require authentication!

Languages: **Choose your language in the following list**

English | Spanish | French | Russian | Nederlands | Svenska | Italiano | Urdu | Chinese (Simplified) | Chinese (Traditional) | Deutsch | Japanese | Croatian | Czech | Slovenian | Catalan | Macedonian | Farsi | Arabic | Portuguese | Portuguese (Brazil) | Polish

User profile

You can display your profile by clicking on your name, then on “Display my profile” (upper-right corner of the page):



The screenshot shows a user profile dropdown menu. At the top right, there is a black bar with a user icon and the text "Your name". Below this, the menu contains a profile picture placeholder, the user's email address (redacted), and three buttons: "Display my profile" (circled in red), "Modify my profile", and "Modify password". Under the heading "PRIVILEGES", there is a red button labeled "Gestionnaire de collection". At the bottom of the menu is a "Log off" button with a power icon.

ON CH

ie European Research
Culture Heritage

ge outlined in the Horizon 2020 – Work Programme 2014-2015 for European research
e for restoration and conservation of Cultural Heritage. encompassed here by the term

User profile

[My space](#) / [My profile](#) / [View profile](#)



Information on my CCSD profile.

Identifier [REDACTED]

Login [REDACTED]

Title Dr.

Family name [REDACTED]

First name [REDACTED]

My FTP space



Information on my HAL profile.

Your name on HAL [REDACTED]

My IdHal

[Create my IdHal](#)

Language French

Default author No

Default domains proposed for each new deposit

- Humanities and Social Sciences/History
- Humanities and Social Sciences/Literature
- Humanities and Social Sciences/Cultural heritage and museology
- Humanities and Social Sciences/Library and information sciences
- Computer Science [cs]/Computation and Language [cs.CL]
- Computer Science [cs]/Computers and Society [cs.CY]
- Computer Science [cs]/Digital Libraries [cs.DL]
- Computer Science [cs]/General Literature [cs.GL]
- Computer Science [cs]/Information Retrieval [cs.IR]
- Computer Science [cs]/Document and Text Processing
- Computer Science [cs]/Web
- Computer Science [cs]/Social and Information Networks [cs.SI]

Submitting a document

- ❑ After depositing a document, it is impossible to delete it. Before submitting a file, it is important to :
 - Ask the agreement of the co-author(s)
 - Check the level of dissemination : it has to be “public”
 - Submit the “author-files” (preprints, postprints, final drafts) except if the “publisher file” of an article is published in an open access journal
 - Add the metadata of the document(s)
 - Respect the embargo period required by the editor – if there is one.

To check the copyright and open access self-archiving policies of academic journals : <http://www.sherpa.ac.uk/romeo/index.php>

Submitting a document

SHERPA/RoMEO

- ❑ Service run by SHERPA
- ❑ The website gathers publisher copyright and self-archiving policies.



... opening access to research

[Home](#) • [Search](#) • [Journals](#) • [Publishers](#) • [FAQ](#) • [Suggest](#) • [About](#)

Publisher copyright policies & self-archiving

[English](#) | [Español](#) | [Magyar](#) | [Nederlands](#) | [Portugués](#)

Search

Journal titles or ISSNs Publisher names

Exact title starts with contains ISSN

[Advanced Search](#)

Use this site to find a summary of permissions that are normally given as part of each publisher's copyright transfer agreement.

RoMEO News

[Blog](#) • [Twitter](#) • [More >>](#)

- [Dutch Version of RoMEO Released](#) - 22-Apr-2015
- [Nederlandse versie van RoMEO verschenen](#) - 22-Apr-2015
- [SHERPA/RoMEO API Version 2.4 has been Closed Down](#) - 26-Nov-2013

Special RoMEO Pages

[More >>](#)

- [Publishers Allowing use of their PDFs in Repositories](#)
- [RoMEO Statistics](#)
- [Application Programmers' Interface \(API\)](#)

Additions and Updates

[RSS1 Feed](#) • [More >>](#)

- [University of Ljubljana, Biotechnical Faculty](#) - University of Ljubljana, Biotechnical Faculty - 15-Apr-2016
- [University of Graz](#) - University of Graz - 14-Apr-2016
- [University of Graz, Centre for Southeast European Studies](#) - University of Graz, Centre for Southeast European Studies - 14-Apr-2016

Other SHERPA Services

- [SHERPA/FACT](#) - Funders & Authors Compliance Tool
- [SHERPA/JULIET](#) - Research funders' open access policies



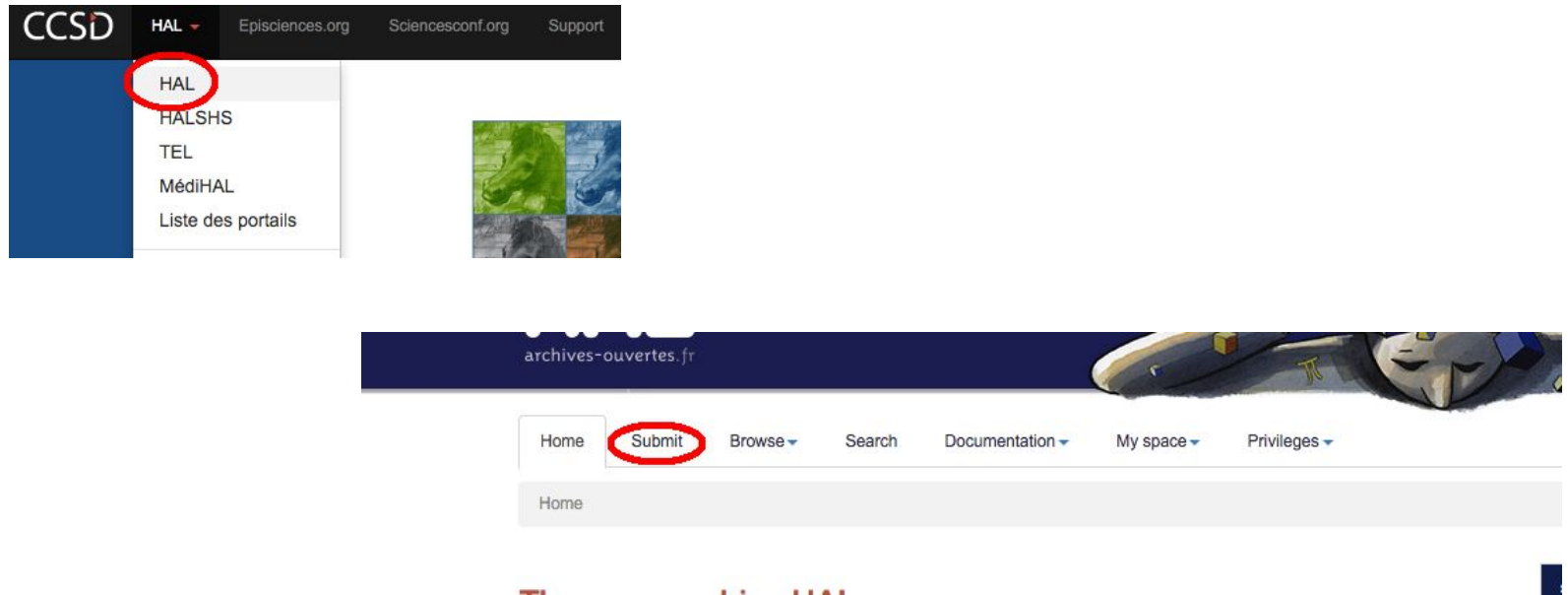
Submitting a document

- ❑ 4 steps :
 1. Select the type of document you wish to deposit
 2. Upload the file
 3. Add metadata
 4. Enter author's affiliations

A last screen will summarize the information you provided. You can then register the deposit.

Submitting a document

Click on “HAL” (upper-left corner of the page) and then on “Submit”:



Choosing the type of your document

Step 1

4 different categories :

- ❑ “Publications” : all types of publications like articles published in a journal or in a book, books and books section, conference papers, poster, communications, work procedures
- ❑ “Documents”: grey literature like preprints, working papers, drafts or reports
- ❑ “Academic works” : thesis or lectures
- ❑ “Research data” : data used during a research project, like images, videos, audio recordings or maps

Choosing the type of your document

Select the type of your document by ticking the correct box.

Home Submit Browse Search Documentation My space Privileges

Submit

Please select the type of document you wish to deposit

Type Files Metadata Author Summary

Publications

- Journal articles
- Conference papers
- Poster communications
- Books
- Book section
- Directions of work or proceedings
- Patents
- Other publications

Documents

- Preprints, Working Papers, ...
- Reports

Academic works

- Theses
- Accreditation to supervise research
- Lectures

Research data

- Photos
- Videos
- Audios
- Maps

Cancel Next step

Uploading a file Step 2

Click on « Select the files ». Many formats are available. You can also skip this step and add only the bibliographical reference[1].

Home Submit Browse Search Documentation My space Privileges

Submit / Other publications

Type Files Metadata Author Summary

Please deposit the files linked with your deposit
Accepted file formats:
tex, eps_tex, ps_tex, pstex, pdf_tex, pdf_t, pdftex, zip, odc, ods, pages, cls, clo, cnf, sty, bst, bib, bbl, toc, idx, aux, def, loc, table, pdf, doc, docx, txt, dot, dotx, rtf, odf, odt, ott, html, htm, ppt, pptx, pot, potx, pps, ppsx, pptm, ppsm, ps, eps, odp, ots, key, knt, xls, xlsx, xlsxm, xltx, xlt, xml, xsl, jpg, jpeg, jpe, jps, png, gif, tif, tiff, ms3d, odg, otg, pct, svg, aac, ac3, aif, aifc, aiff, au, bwf, mp2, mp3, M4r, ogg, ogm, ra, ram, wma, wav, avi, flv, mov, movie, mp4, mpe, mpeg, mpg, qt, rm, rmvb, rv, vob, wmv, m4a

Select the files... Type the URL of the file to be recovered Recover

→ Go directly to the next step

Cancel Next step

[1] In this case, click on “ Go directly to the next step”

Uploading a file

Which version of your work could be uploaded in case of a publication ?

- ❑ If your file is not an Open Access publication, you can upload the peer-reviewed author's manuscript, which has been accepted for publication.
- ❑ If your file is an Open Access publication, you can upload the publisher's version.

Use the pulldown menu to indicate the legal status of your uploaded file(s) :

1. Author files : "The files which I upload are author files" => "the peer-reviewed author's manuscript, which has been accepted for publication"
2. Publisher files : "I have checked that this editor belongs to those which authorize the submission of the "files editor" on an open archive"
3. Publisher files : "I have obtained the explicit agreement of this editor for this particular submission"
4. Publisher files : "My institution has paid the publication costs for this article to be in open access"

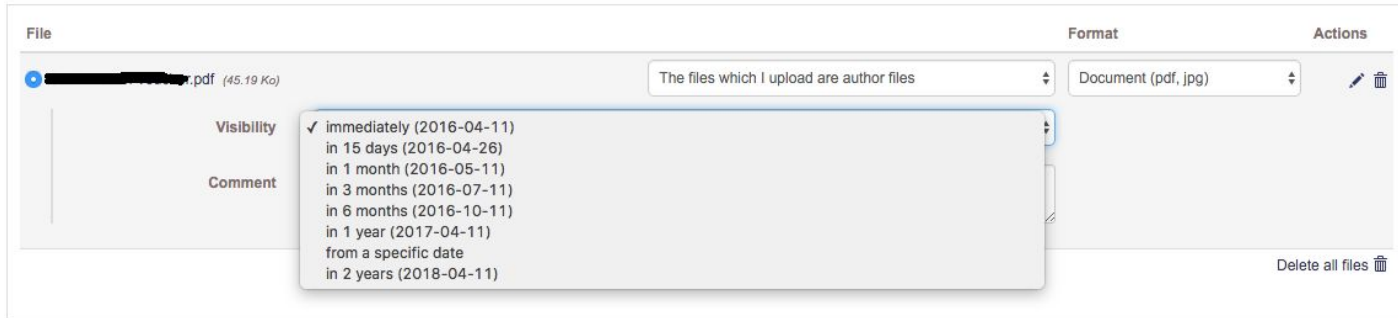
The screenshot shows a file upload interface. On the left, there is a table with columns 'File', 'Format', and 'Actions'. A file named '...' is listed with a size of '(45.19 Ko)'. A dropdown menu is open over the file, showing the following options:

- Author files
- The files which I upload are author files
- Publisher files
- I have checked that this editor belongs to those which authorize the submission of the "files editor" on an open archive
- I have obtained the explicit agreement of this editor for this particular submission
- My institution has paid the publication costs for this article to be in open access

The number 25 is visible in the bottom right corner of the interface.

Uploading a file

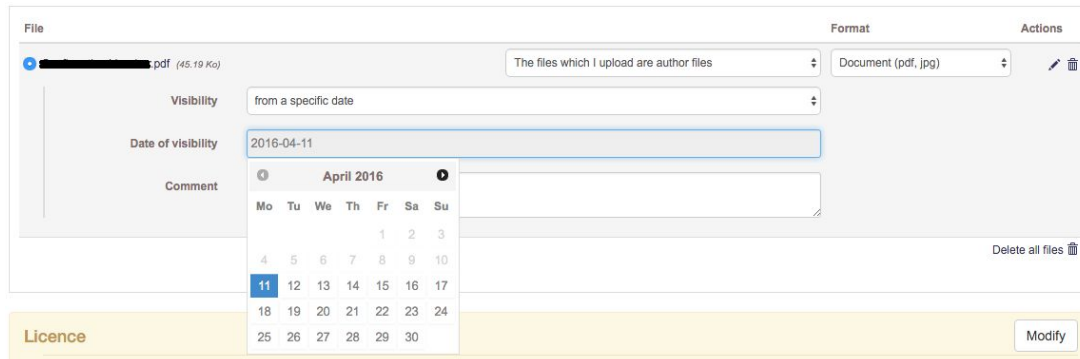
If necessary, you can define an embargo period: the file won't be published before a chosen date. You can choose a specific amount of time or a "specific date".



The screenshot shows a file upload interface with a dropdown menu open for the 'Visibility' field. The menu lists several options with their corresponding dates:

- immediately (2016-04-11)
- in 15 days (2016-04-26)
- in 1 month (2016-05-11)
- in 3 months (2016-07-11)
- in 6 months (2016-10-11)
- in 1 year (2017-04-11)
- from a specific date
- in 2 years (2018-04-11)

The interface also includes fields for 'File' (with a file name and size), 'Format' (set to 'Document (pdf, jpg)'), and 'Actions' (with a 'Delete all files' button).



The screenshot shows the same file upload interface, but with the 'Date of visibility' field selected. A calendar for April 2016 is displayed, with the date 2016-04-11 highlighted. The interface also includes fields for 'File', 'Format', and 'Actions'.

Below the calendar, there is a 'Licence' field and a 'Modify' button.
























Mo	Tu	We	Th	Fr	Sa	Su
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

Uploading a file

After uploading your file, modify the licence. We suggest you choose the most open licence, like the licence CC-BY.

Licence

Modify

- Attribution  
- Attribution - NonCommercial   
- Attribution - NoDerivatives   
- Attribution - ShareAlike   
- Attribution - NonCommercial - NoDerivatives    
- Attribution - NonCommercial - ShareAlike    
- Public Domain Mark 
- CC0 - Public Domain Dedication  
- Open licence - etalab 
- Copyright
- Public Domain

Adding metadata

Step 4

After uploading your file, you can add metadata:

- “Domain” is a mandatory field. Hal displays by default the domain(s) you selected in your profile. But you can delete or add one or several domain(s).

Type Files Metadata Author Summary

* Champs requis

Identifiers *Ajoutez l'identifiant DOI ou les identifiants de ce dépôt dans les bases arXiv, PubMed, ADS et autres.*

DOI +

Domain * *Le domaine que vous mettez en premier, sera considéré comme la discipline principale de l'article. L'ordre des domaines peut être changé par glissé/déposé.*

- Historie **Delete**
- Littératures
- Héritage culturel et muséologie
- Sciences de l'information et de la communication
- Informatique et langage [cs.CL]
- Ordinateur et société [cs.CY]
- Bibliothèque électronique [cs.DL]
- Littérature générale [cs.GL]
- Recherche d'information [cs.IR]
- Traitement du texte et du document
- Web
- Réseaux sociaux et d'information [cs.SI]

Add a domain

Title * *Vous pouvez renseigner le titre en plusieurs langues : choisir la langue et cliquer sur + pour ajouter une nouvelle langue*

English +

Adding metadata

Mandatory fields :

- Keywords
- Language
- Vulgarisation (Yes or No)
- Date of publication

Abstract Vous pouvez renseigner le résumé en plusieurs langues : choisir la langue et cliquer sur + pour ajouter une nouvelle langue

English ▾ +

Keywords *

Vous pouvez renseigner plusieurs mots-clés en plusieurs langues : choisir la langue et cliquer sur + pour ajouter un mot-clé dans la langue sélectionnée. Les caractères ";" (virgule) et ";" (point-virgule) peuvent être utilisés pour séparer une liste de mots-clés.

English ▾ +

Fulltext language *

English ▾

Production date

Renseignez la date suivant AAAA-MM-JJ ou AAAA-MM ou AAAA



Vulgarisation

No ▾

Date de publication

Renseignez la date suivant AAAA-MM-JJ ou AAAA-MM ou AAAA



Nombre de pages

Adding metadata

Mandatory field:

- ☐ “Table des matières” = Table of content

Tables des matières *

Classification *PACS, MSC, etc.*

ACM Classification *Renseignez des mots-clés issus de la classification ACM*

Ajouter un mot-clé ACM

Comment

Internal note

 +

Project/Collaboration

 +

Voir aussi *URL de ressource(s) liée(s) à ce travail*

 +

Adding metadata

Optional field:

- ❑ “Projets européens” = European projects. You have to fill in this field if you want your document belong to the IPERION-CH collection. Choose “IPERION-CH”

Contract, financing

Origine du financement lié à ce travail



Projet(s) ANR

Indiquez le ou les projets ANR liés à ce travail

Projet(s) Européen

Indiquez le ou les projets Européens liés à ce travail

New...

Integrated Platform for the European Research Infrastructure ON Cultural Heritage
IPERION CH - ref :654028 H2020-INFRAIA-2014-2015

Cancel

Next step

When you're finished, click on “Next step”.

Adding metadata (author)

Type Files Metadata **Author** Summary

Nicolas Perrin ^{1,2}, Olivier Stasse ^{1,2}, Florent Lamiroux ^{1,2}, Eiichi Yoshida ³

Add an author

or integrate

1 **ISIR - Institut des Systèmes Intelligents et de Robotique**

2 **LAAS-GEPETTO - Équipe Mouvement des Systèmes Anthropomorphes**

3 **JRL France - Joint Robotics Laboratory AIST & CNRS (France)**

You can add a list of authors
You can select an author thanks to his/her affiliation
You can add an author from your list

Add a list of authors

* Champs requis

Liste d'auteurs*

Forme*

Séparateur*

Rechercher la dernière affiliation de chaque auteur*

Add

Add the authors from a search structure

Rechercher une structure

UMI CNRS-IMPA UCI
CNRS - UMR2924 - Institut National de Mathématiques Pures

Claudio Landim
 Jorge Zubelli
 Jorge Zubelli
 Pedro Maia
 Vlas Sidoravicius

Add the selected authors

Add from my authors

Cátia Cate
 Dália Pinto
 Daniele Merico
 De Jonge
 Dombroski
 Eftichia Duketis
 Elena Bacchelli
 Elena Maestrini

Add the selected authors

It allows you to associate all the authors mentioned in the document to this author

Adding metadata (author)

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Submission Type	File				
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Title	Characterization of Kbot21 Reveals Novel Side Chain Interactions of Scorpion Toxins Inhibiting Voltage-Gated Potassium Channels.				
Authors	Rym Elfessi-Magouri ¹ , Steve Peigneur ² , Houcemeddine Othman ¹ , Najet Sraini-Abid ¹ , Mohamed Elayeb ¹ , Jan Tytgat ² , Raddh Kharrat ¹ * * : Corresponding author				
	Institut Pasteur de Tunis - Institut Pasteur de Tunis ; Réseau International des Instituts Pasteur Laboratory of Toxicology & Pharmacology - University of Leuven				
Abstract	Scorpion toxins are important pharmacological tools for probing the physiological roles of ion channels which are involved in many physiological processes and as such have significant therapeutic potential. The discovery of new scorpion toxins with different specificities and affinities is needed to further characterize the physiology of ion channels. In this regard, a new short polypeptide called Kbot21 has been purified to homogeneity from the venom of <i>Buthus occitanus tunetanus</i> scorpion. Kbot21 is structurally related to Bm8KTx1 from the venom of the Asian scorpion <i>Buthus martensii</i> Karsch. These two toxins differ by only two residues at position 13 (R /V) and 24 (D/N). Despite their very similar sequences, Kbot21 and Bm8KTx1 differ in their electrophysiological activities. Kbot21 targets KV channel subtypes whereas Bm8KTx1 is active on both big conductance (BK) and small conductance (SK) Ca ²⁺ -activated K ⁺ channel subtypes, but has no effects on Kv channel subtypes. The docking model of Kbot21 with the Kv1.2 channel shows that the D24 and R13 side-chain of Kbot21 are critical for its interaction with KV channels.				
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